

Cassette-Corder

TCM-S63/S64V/S66V/S67V/S68V

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Sony Corporation © 1992 Printed in Taiwan, R.O.C.

Owner's Record

The model number is located on the bottom and the serial number is located on the rear of the cassette holder.

Record these numbers in the space provided below.

Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Features

This manual covers the TCM-S63, TCM-S64V, TCM-S66V, TCM-S67V and TCM-S68V. The illustrations are based on the TCM-S68V which has the most functions. If any particular functions apply to your model, they will be noted.

VOR (Voice Operated Recording) system (TCM-S64V/S66V/S67V/S68V)

With this system, recording starts only when sound is picked up and stops automatically when the sound is no longer detected. This system economizes tapes, batteries and playback time.

CUE MARKER function (TCM-S68V)

With this function, you can mark desired portions on a tape while recording, and easily search these portions during cue or review.

FAST PB (fast playback) function

With this function, you can listen to the tape contents rapidly and economize playback time.

Other features

- Compact size and easy operation.
- BATT (TCM-S63/S64V/S66V) or REC/BATT (TCM-S67V/S68V) indicator glows faintly when it is the time to replace the batteries.
- Pause release function for automatically releasing PAUSE with ■ STOP while the unit is in the pause mode to capture recording chances.
- By drawing out the sliding microphone, you can improve the recording effect (TCM-S68V).
- Automatic shut-off mechanism (in the recording/playback mode only).
- You can start recording directly from the playback mode. This function is convenient for correcting previously recorded portions.

VOR (Voice Operated Recording) system (TCM-S64V/S66V/S67V/S68V)

With this system, recording starts only when sound is picked up and stops automatically when the sound is no longer detected.

Precautions

- Operate the unit only on 3 V DC.
For AC operation, use the AC power adaptor recommended for the unit. Do not use any other type. For battery operation, use two size AA (R6) batteries.
- The nameplate indicating operating voltage, etc., is located on the bottom of the unit.
- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- When the internal batteries are not to be used for a long period of time, remove them to avoid damage caused by battery leakage and subsequent corrosion.
- If the unit has not been used for a long period of time, set it in the playback mode to warm it up for a few minutes before inserting a cassette.
- Should any solid object or liquid fall into the unit, remove the batteries or disconnect the AC power adaptor, and have the unit checked by qualified personnel before operating it any further.
- Since a strong magnet is used for the speaker, keep personal credit cards using magnetic coding or spring-wound watches etc. away from the unit to prevent possible damage from the magnet.

Note on cassettes longer than 90 minutes

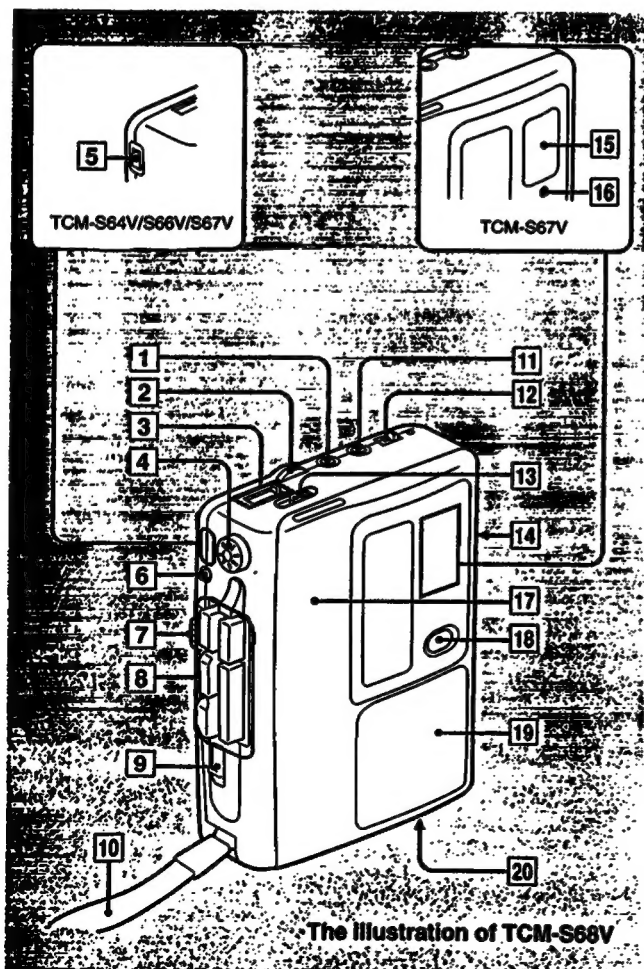
The use of cassettes longer than 90 minutes is not recommended except for a long continuous recording or playback. The tapes used for these cassettes are very thin and tends to be stretched easily.

Note on cassette types

For recording, we recommend the use of TYPE I (normal) tapes only. Do not use TYPE II (CrO₂) or TYPE IV (metal) tapes.

If you have any questions or problems concerning your unit that are not covered in this manual, please consult the nearest Sony dealer.

Parts Identification

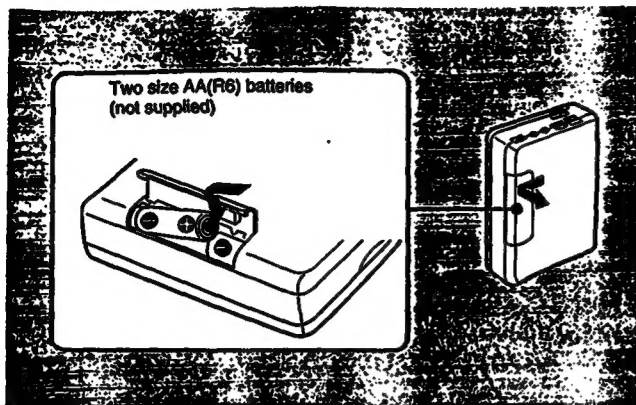


The illustration of TCM-S68V

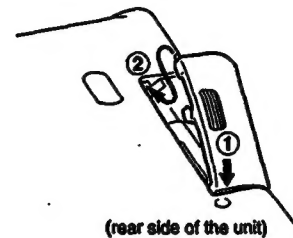
- 1 MIC (microphone) (plug in power) jack (TCM-S64V/S66V/S67V/S68V)
- 2 VOL (volume) control
- 3 COUNTER (tape counter) and counter reset button (TCM-S66V/S67V/S68V)
For indexing the tape contents. Before recording, press the counter reset button to set the tape counter to "000".
- 4 MIC (built-in microphone) (TCM-S63/S64V/S66V/S68V)
- 5 MIC SENS (microphone sensitivity) switch (TCM-S64V/S66V/S67V)
- 6 BATT (battery) indicator (TCM-S63/S64V/S66V)
REC/BATT (recording/battery) indicator (TCM-S68V)
- 7 FAST PB (fast playback) switch
- 8 Tape operation buttons
● REC (record) / ▶ PLAY / ■ STOP / ►► FF/CUE (fast forward/cue) / ◀◀ REW/REVIEW (rewind/review) button
- 9 PAUSE — switch
- 10 Handstrap (TCM-S64V/S66V/S67V/S68V)
- 11 EAR (earphone) jack
- 12 VOR (Voice Operated Recording) switch (TCM-S64V/S66V/S67V/S68V)
- 13 MIC SENS (microphone sensitivity) switch (TCM-S68V)
- 14 Battery compartment (rear)
- 15 Flat Mic (built-in microphone) (TCM-S67V)
- 16 REC/BATT (recording/battery) indicator (TCM-S67V)
- 17 Cassette holder
- 18 CUE MARKER button (TCM-S68V)
- 19 Speaker (built-in)
- 20 DC IN 3V (external power input) jack

Power Sources

Operating with Batteries



If the battery compartment lid is detached by an accidental drop, excessive force etc., attach it as illustrated.



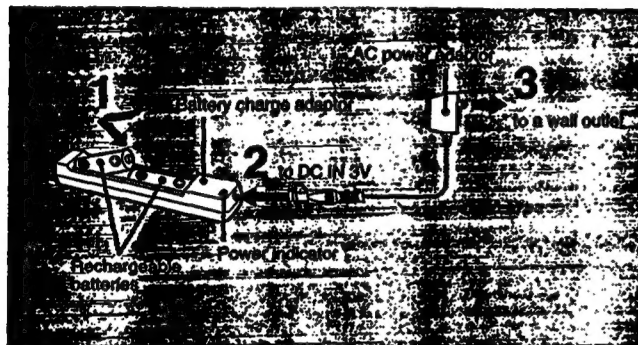
When to replace the batteries

When the batteries become weak, the BATT (TCM-S63/S64V/S66V) or REC/BATT (TCM-S67V/S68V) indicator will glow faintly and the playback sound will become distorted or unstable. In this case, replace both batteries with new ones.

Concerning the battery life, see "Specifications".

Operating with Rechargeable Batteries (supplied to TCM-S66V)

Before using the rechargeable batteries, charge them with the supplied battery charge adaptor and AC power adaptor.



Unplug the AC power adaptor from the wall outlet and from the battery charge adaptor after about eight hours.

Notes

- The power indicator lights in green as long as the AC power adaptor is plugged to the wall outlet and the DC IN 3V jack, even when the charging has not been done.
- Use only the supplied or recommended AC power adaptor, battery charge adaptor and rechargeable batteries.
- Remove the rechargeable batteries from the battery charge adaptor to avoid overcharging (more than 20 hours). Doing so may damage the rechargeable batteries.

RECYCLING NICKEL-CADMIUM BATTERIES



NICKEL-CADMIUM BATTERY. MUST BE DISPOSED OF PROPERLY.

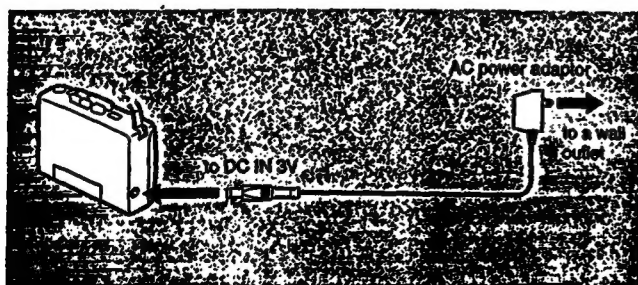
Nickel-Cadmium batteries are recyclable. You can help preserve our environment by returning your unwanted batteries to your nearest Sony Service Center for collection, recycling or proper disposal.

Note: In some areas the disposal of nickel-cadmium batteries in household or business trash may be prohibited.

For the Sony Service Center nearest you call 1-800-222-SONY (United States only)

Caution: Do not handle damaged or leaking nickel-cadmium batteries.

Operating on House Current



Note on the AC power adaptor

Use only the supplied AC power adaptor (TCM-S66V) or the AC-E30M AC power adaptor (not supplied). Do not use any other AC power adaptor.

Polarity of the plug
(Unified polarity type)

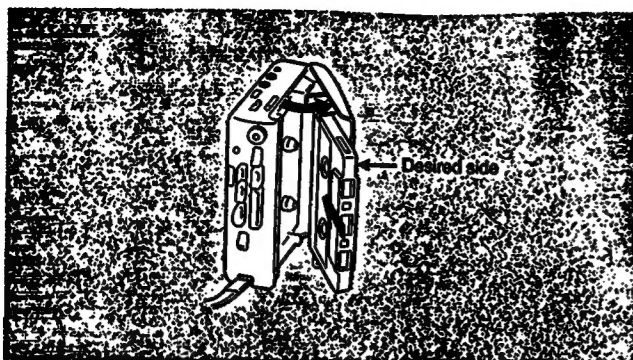


Note

Power will be supplied through the AC power adaptor or the car battery cord when it is connected to the unit instead of the installed batteries.

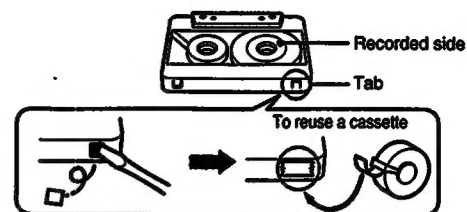
Make sure that the AC power adaptor or the car battery cord is disconnected from the unit when you wish to use the unit with the installed batteries.

Inserting a Cassette



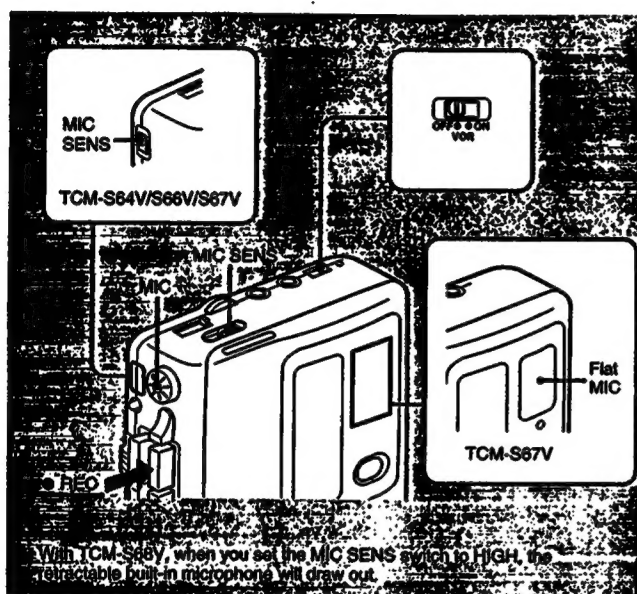
To prevent accidental erasure

Break off the tab corresponding to the recorded side. Any recording on that side will be protected.



Recording

Use only TYPE I (normal) tapes for recording.



Selecting the Sensitivity of Microphone (TCM-S64V/S66V/S67V/S68V)

The recording condition depends on the environment and other factors. Select the optimum setting of the microphone according to the list below.

	MIC SENS switch setting	
	TCM-S64V/S66V/S67V	TCM-S68V
At meetings		
For dictation		

In general

In a noisy place: set the MIC SENS switch to "L or LOW".

In a quiet or spacious place: set the MIC SENS switch to "H or HIGH".

Note on the external microphones

External microphones vary in their sensitivity. In some cases, the VOR system of the unit may not work properly due to the difference of the microphone sensitivity.

How to Use the VOR System (TCM-S64V/S66V/S67V/S68V)

ON: Recording starts only when the microphone picks up sound and stops automatically when the sound is no longer detected.

OFF: For continuous recording

Notes

- If you wish to make continuous recording in a situation where the ambient sound level is relatively low, make sure that the VOR switch is set to OFF. Otherwise the unit may not be activated to pick up the low level sound.
- You do not need to adjust the volume level when recording with the VOR system.

When using the VOR system, set the MIC SENS switch in the following manner

H or HIGH: In a quiet or spacious place

L or LOW: In a noisy place*

- If the MIC SENS switch is set to H or HIGH in the noisy places, recording may not stop automatically when it is supposed to.

Useful Operations for Recording

To review the portion just recorded, press-and hold ◀◀ REW/REVIEW firmly while recording. When ◀◀ REW/REVIEW is released, playback will start.

To monitor the recording sound, connect an earphone to the EAR jack.

To stop the recording, press ■ STOP.

To stop the tape momentarily in the recording or playback mode, slide PAUSE ▬▬ to the direction of the arrow.

The unit automatically releases PAUSE ▬▬ when ■ STOP is pressed (Pause release function).

At the end of the tape

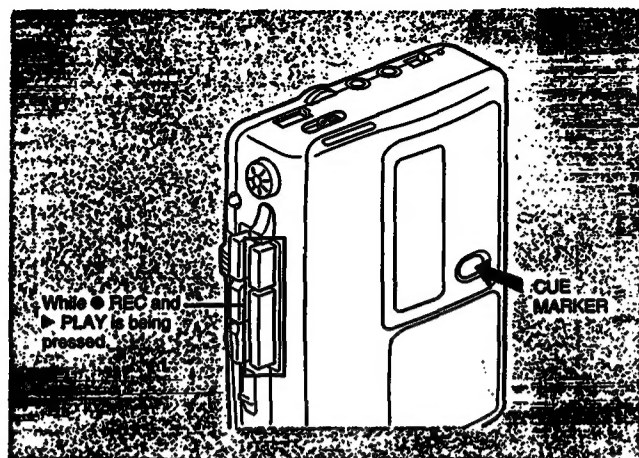
In the recording or playback mode, the tape stops at the end of the tape and the locked button will be released automatically (Automatic shut-off mechanism).

Recording from Various Sound Sources

To record with an external microphone (not supplied), connect the microphone plug to the MIC jack of this unit (TCM-S64V/S66V/S67V/S68V). Use a low impedance (less than 3 kΩ) microphone such as the ECM-011.

To record from another equipment, connect the MIC jack of this unit (TCM-S64V/S66V/S67V/S68V) to the other equipment with the

Marking Certain Portions (TCM-S68V) CUE MARKER Function



Press CUE MARKER just before a desired portion is recorded. You can mark as many as you want.

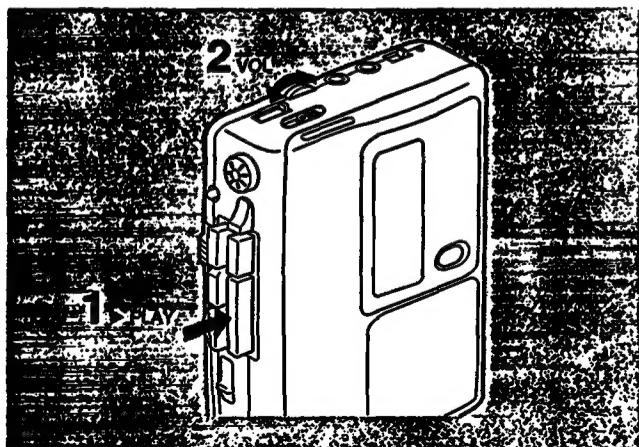
To search the marked portion during playback

Press and hold ►► FF/CUE or ◄◄ REW/REVIEW firmly during playback. You will hear the beep sound at the portions you marked. Release ►► FF/CUE or ◄◄ REW/REVIEW when you have located the desired portion you marked to restart playback.

Notes

- The beep may sound differently depending on the marked portion on the tape because the winding speed varies from the beginning to the end of the tape.
- You will not hear the beep sound during playback or when the volume is turned down completely.
- When you press ■ STOP or slide PAUSE ▴ to the direction of the arrow just after you press CUE MARKER, a cue mark may not be memorized.

Playback



To advance the tape rapidly, press ►► FF/CUE.

To rewind the tape rapidly, press ◄◄ REW/REVIEW.

To stop the tape, press ■ STOP.

During playback

To skip undesired portion, press and hold ►► FF/CUE firmly.

To go back to a certain portion, press and hold ◄◄ REW/REVIEW firmly.

When the button is released, playback resumes (Cue/Review function).

To start recording directly from the playback mode

During playback, simply press ● REC and the unit will immediately enter the recording mode.

To increase the playback speed

Slide FAST PB to the direction of the arrow. The playback speed will be increased.

To return to the original speed, slide FAST PB to the original position.

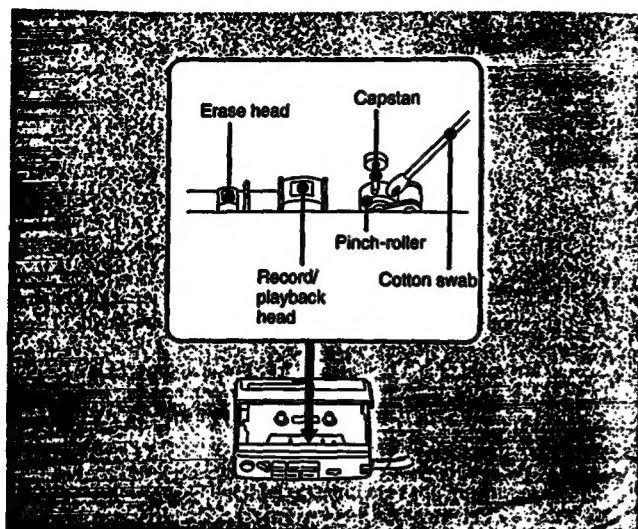
When the earphone is plugged in

The speaker will be automatically disconnected.

Note

Be sure to press and hold ►► FF/CUE or ◄◄ REW/REVIEW firmly while cueing or reviewing. Otherwise these functions may not work properly.

Maintenance



Cleaning the heads

Clean the heads, pinch-roller and capstan after every 10 hours of use to enjoy optimum sound. Moisten a cotton swab with alcohol and wipe the parts shown in the illustration.

Troubleshooting Guide

Should any problem persist after you have made these checks, consult your nearest Sony dealer.

Set the VOR switch to OFF for continuous recording.

Trouble	Causes/Solutions
• REC cannot be pressed.	• No cassette in the cassette holder. • The inserted cassette has its tabs removed.
▶ PLAY cannot be pressed.	The tape is completely wound towards the direction of the arrow on the cassette holder. → Rewind the tape with ◀◀ REW/REVIEW.
Tape does not move.	• Incorrect polarity of batteries. • Weak batteries. • PAUSE — is slid to the direction of the arrow. • The AC power adaptor/car battery cord is connected to the DC IN 3V jack of the unit but is not plugged into the wall outlet/car cigarette lighter socket. → Check the connection.
No sound from the speaker.	• The earphone is plugged in. • The VOL control is turned down completely.
Recording cannot be made or is unsatisfactory.	• Weak batteries. • Improper setting of the MIC SENS switch.
Weak or distorted sounds.	Weak batteries.
Sound drop-outs, loss of high frequency or excessive noise.	Dirty heads. → Clean the heads with a cotton swab slightly moistened with cleaning fluid or alcohol. (See "Maintenance".)

Specifications

Recording system	2-track 1 channel monaural
Frequency response	250 – 6,300 Hz
Speaker	Approx. 3.6 cm (1 7/16 in.) dia.
Power output	130 mW (at 10% harmonic distortion)
Input	Microphone input jack (minijack) sensitivity 0.2 mV for 3 kΩ or lower impedance microphone
Output	Earphone jack (minijack) for 8 – 300 Ω earphone
Power requirements	3 V DC, two size AA (R6) batteries, two NC-AA rechargeable batteries (1.2 V) (supplied to TCM-S66V) DC IN 3V jack accepts: • Sony AC power adaptor (supplied to TCM-S66V) or AC-E30M AC power adaptor (not supplied) for use on 120 V AC, 60 Hz • Sony DCC-E130L car battery cord (not supplied) for use on 12 V car battery.

Battery life

Batteries	Recording
Sony batteries SUM-3 (NS)	Approx. 4 hours
Sony alkaline batteries AM3(N)	Approx. 12 hours
Rechargeable NC-AA fully charged	Approx. 3.5 hours

Dimensions

TCM-S63/S64V:	Approx. 93.6 x 119.7 x 39.1 mm (3 3/4 x 4 3/4 x 1 5/16 in.) (w/h/d)
TCM-S67V:	Approx. 93.6 x 120.1 x 39.5 mm (3 3/4 x 4 7/8 x 1 5/16 in.) (w/h/d)
TCM-S66V/S68V:	Approx. 93.6 x 120.1 x 39.1 mm (3 3/4 x 4 7/8 x 1 5/16 in.) (w/h/d) incl. projecting parts and controls

Mass

TCM-S63/S64V/S66V:	Approx. 275 g (9.8 oz.)
TCM-S67V:	Approx. 280 g (9.9 oz.)
TCM-S68V:	Approx. 285 g (10.1 oz.) incl. batteries

Supplied accessories

AC power adaptor (1) (TCM-S66V)
Battery charge adaptor (1) (TCM-S66V)
Rechargeable batteries (2) (TCM-S66V)

Optional accessories Car battery cord DCC-E130L
Monaural earphone ME-91, ME-L82
Connecting cord RK-G64HG
Electret condenser microphone ECM-011
AC power adaptor AC-E30M

Your dealer may not handle some of the listed optional accessories. Please ask the dealer for detailed information.

Design and specifications subject to change without notice.

AC, 60 Hz

• Sony DCC-E130L car battery cord (not supplied) for use on 12 V car battery.

AC, 60 Hz

• Sony DCC-E130L car battery cord (not supplied) for use on 12 V car battery.

SONY. LIMITED WARRANTY

SONY ELECTRONICS INC. ("SONY") warrants this product against defects in material or workmanship, as follows:

1. For a period of 90 days from the date of retail purchase, SONY shall at its sole and absolute option either repair the defective product at no charge or replace the defective product with the same model or its equivalent model at no charge through a SONY SERVICE CENTER.

To obtain warranty service during the initial 90-day period, you must take the product, or deliver the product prepaid, to one of the SONY SERVICE CENTERS located in the United States.

2. After the initial 90-day period, SONY will supply, at no charge, new or rebuilt replacements for defective parts for a period of 1 year from the date of retail purchase.

Labor for removal and installation of these parts is available from your SONY authorized service facility or SONY SERVICE CENTER, at your expense.

Proof of purchase in the form of a bill of sale or receipted invoice, which indicates that the product is within the warranty period, must be presented to obtain warranty service.

This warranty does not cover cosmetic damage, and damage to any part of the product, including the antenna, which results from acts of God, accident, misuse, abuse, improper maintenance, or connection to an improper voltage supply.

This warranty is valid only if the serial number appears on the product. This warranty is valid only in the United States of America.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the Sony Partnership as within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Please refer to the list of SONY SERVICE CENTERS on the reverse side for the SONY SERVICE CENTER nearest you.

For your convenience, Sony Electronics Inc. has established the Customer Information Center to supply you with product or service information.

Important: If returning product for service, please see reverse side of this card for your nearest Sony Service Center.

SONY CUSTOMER INFORMATION CENTER

201-930-SONY (7668)

714-821-SONY (7668)

708-206-SONY (7668)

or write to:

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